

CLAIMS

1. A remote control toy system comprising:

a plurality of sets, each set including a controller, and
a model controlled in action on the basis of data transmitted
5 from the controller so as to correspond to an operation situation
of a user; and

an accessory device provided as a device independent from
the controllers and the models, the accessory device being
capable of conducting data communication with the controllers
10 and the models,

wherein each of the controllers, the models, and the
accessory device comprises:

a radio communication module serving as a device for
executing the data communication and capable of conducting
15 bilateral data communication based on a same standard; and

a control device for implementing various controls based
on data communication conducted via the radio communication
module.

20 2. The remote control toy system according to claim 1, wherein
the control device of the accessory device comprises:

a device for receiving data sent from the controller or
the model, via the radio communication module;

a device for executing processing based on information
25 contained in the received data; and

a device for generating data corresponding to a result
of the processing and sending the data via the radio communication

module.

3. The remote control toy system according to claim 1, wherein
the accessory device comprises an information input
5 section for accepting a user's information input, and
the control device of the accessory device comprises:
a device for executing predetermined processing on the
basis of information input from the information input section;
and

10 a device for generating data corresponding to a result
of the processing and sending the data via the radio communication
module.

4. The remote control toy system according to claim 2 or 3,
15 wherein the control device of the controller comprises:
a device for receiving the data sent from the accessory
device, via the radio communication module; and
a device for executing predetermined processing on the
basis of the received data.

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5. The remote control toy system according to claim 4, wherein
the sending device of the control device of the accessory
device can execute processing of generating and sending broadcast
data intended for a plurality of controllers, and

25 the receiving device of the control device of each
controller can receive the broadcast data, and

the executing device of the control device of each

controller can execute processing common to all controllers for which the broadcast data is intended, as the predetermined processing.

5 6. The remote control toy system according to claim 2 or 3, wherein the control device of the model comprises:

a device for receiving data sent from the accessory device, via the radio communication module; and

10 a device for executing predetermined processing on the basis of the received data.

7. The remote control toy system according to claim 6, wherein the sending device of the control device of the accessory device can execute processing of generating and sending broadcast data intended for a plurality of models, and

15 the receiving device of the control device of each model can receive the broadcast data, and

the executing device of the control device of each model can execute processing common to all models for which the broadcast data is intended, as the predetermined processing.

8. The remote control toy system according to claim 1, wherein each model comprises a detection device for outputting a signal correlated to a play situation,

25 the control device of each model comprises:

a device for effecting a predetermined decision concerning the play situation on the basis of the output signal of the

detection device; and

a device for generating data corresponding to a result of the decision and sending the data via the radio communication module,

5 the control device of the accessory device comprises:

a device for receiving data sent from the model so as to be associated with the output signal of the detection device, via the radio communication module;

a device for determining restrictions concerning action
10 of at least one model, on the basis of the received data; and

a device for generating data corresponding to the determined restrictions and sending the generated data via the radio communication module, and

the control device of the controller or the model
15 comprises:

a device for receiving data corresponding to the restrictions sent from the accessory device, via the radio communication module; and

a device for setting a correspondence relation between
20 operation of the controller and action of the model on the basis of the received data.

9. The remote control toy system according to claim 8, wherein the device for setting a correspondence relation between
25 operation of the controller and action of the model changes a correspondence relation between an operation quantity of the controller concerning a specific action of the model and a control

quantity concerning the specific action of the model according to contents of the restrictions.

10. The remote control toy system according to any one of claims
5 1 to 9, wherein the radio communication module is based on Bluetooth standards.

11. A remote control toy system comprising:
a controller, and a model controlled in action on the basis
10 of data transmitted from the controller so as to correspond to an operation situation of a user; and
each of the controller and the model comprises:
a radio communication module based on Bluetooth standards
serving as a device for executing communication between the
15 controller and the model; and
a control device for executing remote control based on data communication conducted via the radio communication module.

12. The remote control toy system according to claim 11,
20 wherein
the model comprises a detection device for outputting a signal correlated to a play situation,
the control device of the model comprises:
a device for effecting a predetermined decision concerning
25 the play situation on the basis of the output signal of the detection device; and
a device for generating data corresponding to a result

of the decision and sending the data via the radio communication module,

the control device of the controller comprises:

a device for receiving data sent from the model, via the
5 radio communication module; and

a device for executing predetermined processing on the basis of the received data.

13. A controller for remote-controlling a model, the
10 controller comprising:

an operation input section for accepting a user's steering operation on the model;

a radio communication module based on Bluetooth standards serving as a device for executing bilateral data communication
15 between the controller and the model; and

a control device for implementing various controls based on data communication conducted via the radio communication module,

wherein the control device comprises:

20 a device for determining steering information so as to correspond to an operation state of the operation input section;

a device for generating data containing the determined steering information and sending the data via the radio communication module;

25 a device for receiving data sent from outside, via the radio communication module; and

a device for executing predetermined processing on the

basis of the received data.

14. A model remote-controlled on the basis of steering information that is contained in data transmitted from a controller, the model comprising:

a driving source for implementing predetermined action;

a radio communication module based on Bluetooth standards serving as a device for executing bilateral data communication between the model and the controller; and

a detection device for outputting a signal correlated to a play situation,

a control device for implementing various controls based on data communication conducted via the radio communication module,

wherein the control device comprises:

a device for receiving data containing the steering information transmitted from the controller, via the radio communication module;

a device for controlling action of the driving source on the basis of the steering information;

a device for effecting a predetermined decision concerning the play situation on the basis of the output signal of the detection device; and

a device for generating data corresponding to a result of the decision and sending the data via the radio communication module.

15. An accessory device used in combination with a controller and a model remote-controlled on the basis of data supplied from the controller, the accessory device comprising:

a radio communication module based on Bluetooth standards
5 serving as a device for executing bilateral data communication between the accessory device and the controller and between the accessory device and the model; and

a control device for implementing various controls based on data communication conducted via the radio communication
10 module,

wherein the control device comprises:

a device for receiving data sent from the controller or the model, via the radio communication module;

a device for executing processing based on information
15 contained in the received data; and

a device for generating data corresponding to a result of the processing and sending the data via the radio communication module.

20 16. An accessory device used in combination with a controller and a model remote-controlled on the basis of data supplied from the controller, the accessory device comprising:

a radio communication module based on Bluetooth standards serving as a device for executing bilateral data communication
25 between the accessory device and the controller and between the accessory device and the model;

a control device for implementing various controls based

on data communication conducted via the radio communication module; and

an information input section for accepting a user's information input,

5 wherein the control device comprises:

a device for executing predetermined processing on the basis of information input from the information input section; and

10 a device for generating data corresponding to a result of the processing and sending the data via the radio communication module.